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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/682,276	08/13/2001	Rieko Kataoka	JP920000224US1	4826
877	7590	03/08/2004	EXAMINER	
IBM CORPORATION, T.J. WATSON RESEARCH CENTER P.O. BOX 218 YORKTOWN HEIGHTS, NY 10598			LAO, LUN YI	
		ART UNIT	PAPER NUMBER	9
		2673		

DATE MAILED: 03/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Notice of Abandonment</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	09/682,276	KATAOKA ET AL.
	Examiner Lao Y Lun	Art Unit 2673

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

This application is abandoned in view of:

1.  Applicant's failure to timely file a proper reply to the Office letter mailed on 20 June 2003.
  - (a)  A reply was received on \_\_\_\_\_ (with a Certificate of Mailing or Transmission dated \_\_\_\_\_), which is after the expiration of the period for reply (including a total extension of time of \_\_\_\_\_ month(s)) which expired on \_\_\_\_\_.
  - (b)  A proposed reply was received on \_\_\_\_\_, but it does not constitute a proper reply under 37 CFR 1.113 (a) to the final rejection. (A proper reply under 37 CFR 1.113 to a final rejection consists only of: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114).
  - (c)  A reply was received on \_\_\_\_\_ but it does not constitute a proper reply, or a bona fide attempt at a proper reply, to the non-final rejection. See 37 CFR 1.85(a) and 1.111. (See explanation in box 7 below).
  - (d)  No reply has been received.
2.  Applicant's failure to timely pay the required issue fee and publication fee, if applicable, within the statutory period of three months from the mailing date of the Notice of Allowance (PTOL-85).
  - (a)  The issue fee and publication fee, if applicable, was received on \_\_\_\_\_ (with a Certificate of Mailing or Transmission dated \_\_\_\_\_), which is after the expiration of the statutory period for payment of the issue fee (and publication fee) set in the Notice of Allowance (PTOL-85).
  - (b)  The submitted fee of \$\_\_\_\_\_ is insufficient. A balance of \$\_\_\_\_\_ is due.  
The issue fee required by 37 CFR 1.18 is \$\_\_\_\_\_. The publication fee, if required by 37 CFR 1.18(d), is \$\_\_\_\_\_.
  - (c)  The issue fee and publication fee, if applicable, has not been received.
3.  Applicant's failure to timely file corrected drawings as required by, and within the three-month period set in, the Notice of Allowability (PTO-37).
  - (a)  Proposed corrected drawings were received on \_\_\_\_\_ (with a Certificate of Mailing or Transmission dated \_\_\_\_\_), which is after the expiration of the period for reply.
  - (b)  No corrected drawings have been received.
4.  The letter of express abandonment which is signed by the attorney or agent of record, the assignee of the entire interest, or all of the applicants.
5.  The letter of express abandonment which is signed by an attorney or agent (acting in a representative capacity under 37 CFR 1.34(a)) upon the filing of a continuing application.
6.  The decision by the Board of Patent Appeals and Interference rendered on \_\_\_\_\_ and because the period for seeking court review of the decision has expired and there are no allowed claims.
7.  The reason(s) below:

Lun-Yi Lao  
Primary Examiner

Petitions to revive under 37 CFR 1.137(a) or (b), or requests to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to minimize any negative effects on patent term.

## Claims

- [c1] 1.A display apparatus comprising:  
a display screen; and  
a display controller for being able to change the refresh rate of said display screen according to the brightness of said display screen.
- [c2] 2.The display apparatus according to Claim 1, wherein said display controller can change the refresh rate to a plurality of levels.
- [c3] 3.The display apparatus according to Claim 1, wherein said display controller changes the refresh rate when a predetermined condition is met.
- [c4] 4.A display apparatus comprising:  
a display screen; and  
a controller for changing the refresh rate of said display screen when the type of power source driving the display screen is changed.
- [c5] 5.A display apparatus comprising:  
a display panel; and  
a light source for illuminating said display panel from behind; wherein, the luminance of said light source and the refresh rate of said display panel are changed in combination with each other.
- [c6] 6.The display apparatus according to Claim 5, wherein the refresh rate of said display panel decreases as the luminance of said light source decreases.
- [c7] 7.The display apparatus according to Claim 5, wherein the luminance of said light source is set to a plurality of levels and the refresh rate of said display panel is set correspondingly to each level of the luminance of said light source.
- [c8] 8.The display apparatus according to Claim 5, wherein the luminance of said light source can be changed by a user operation.
- [c9] 9.A computer apparatus comprising a display panel, wherein a refresh rate of said display panel is changed according to whether a power source powering said computer is from a first power source or a second power source.

- [c10] 10.The computer apparatus according to Claim 9 comprising a power source detector for detecting the attachment/detachment of an alternating current power source adapter to/from said computer apparatus wherein said alternating current power source is said second power source.
- [c11] 11.The computer apparatus according to Claim 9, wherein the brightness of said display panel is changed together with the refresh rate according to the type of said power source being used.
- [c12] 12.The computer apparatus according to Claim 11, wherein said brightness and said refresh rate can be changed to a plurality of levels when said first power source is a battery.
- [c13] 13.The computer apparatus according to Claim 9, wherein the refresh rate is lower while using said first power source than while using said second power source.
- [c14] 14.A storage medium storing a program to be executed by a computer driving a display screen, wherein said program can be read by said computer apparatus and said program causing said computer apparatus to perform the steps of:  
detecting a change in the brightness of said display screen; and  
changing the refresh rate of said display screen according to the change in the brightness of said display screen.
- [c15] 15.A storage medium storing a program to be executed by a computer with a display screen, wherein said program can be read by said computer apparatus and said program causing said computer apparatus to perform the steps of:  
detecting the attachment/detachment of an alternating current power source adapter to/from said computer apparatus;  
increasing the refresh rate of said display panel when said alternating current power source adapter changes from a detached state to an attached state; and  
decreasing the refresh rate of said display panel when said alternating current power source adapter changes from an attached state to a detached state.